

PRODUCTION OF METAL

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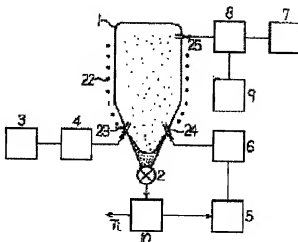
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Abstract of JP5059413

PURPOSE: To continuously produce a high-quality metal by introducing the vapor of a compd. capable of being rapidly decomposed at the temp. of a reactor into the reactor and growing a metal to be reduced with the fine powder generated by the decomposition as the nucleus. **CONSTITUTION:** Titanium chloride as one of the raw gases is passed through an evaporator 4 and introduced into a reactor 1, and magnesium as the other raw gas is introduced into the lower part of the reactor 1 from an evaporator 6. Meanwhile, an easily decomposable material from an evaporator 8 is entrained by an inert gas and introduced into the reactor 1. Since the volume of the raw gases is rapidly reduced as the reaction proceeds, an upward gas current is formed, and the descent of powder is disturbed. The powder stays in the air until the powder is sufficiently grown. The settled metallic titanium powder forms a slurry with liq. magnesium chloride and is discharged outside the reactor 1. The slurry is passed through a separator 10 and separated into the metal powder as the product and magnesium chloride. The magnesium chloride is returned to an electrolytic furnace 5.



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